

SEQUENCE LISTING

<110> Goldfarb, David S.

<120> MATERIALS AND METHODS FOR IDENTIFYING GENES AND/OR
AGENTS THAT ALTER REPLICATIVE LIFESPAN

<130> 176/61481

<140>

<141>

<150> 60/451,309

<151> 2003-02-28

<150> 60/468,467

<151> 2003-05-06

<160> 4

<170> PatentIn Ver. 2.1

<210> 1

<211> 628

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: GAL1/10
bi-directional promoter

<400> 1

```

ttatatgaa ttttcaaaaa ttcttacttt ttttttggat ggacgcaaag aagtttaata 60
atcatattac atggcattac caccatatac atatccatat ctaatcttac ttatatgttg 120
tggaatgta aagagcccca ttatcttagc ctataaaaaac cttctctttg gaactttcag 180
taatacgctt aactgctcat tgctatattg aagtacggat tagaagccgc cgagcgggcg 240
acagccctcc gacggaagac tctcctccgt gcgctcctcg cttcaccggt cgcgttcctg 300
aaacgcagat gtgcctcgcg ccgcactgct ccgaacaata aagattctac aatactagct 360
tttatgggta tgaagaggaa aaattggcag taacctggcc ccacaaacct tcaaattaac 420
gaatcaaatt aacaaccata ggatgataat gcgattagtt ttttagcctt atttctgggg 480
taattaatca gcgaagcgat gatttttgat ctattaacag atatataaat ggaaaagctg 540
cataaccact ttaactaata ctttcaacat tttcagtttg tattacttct tattcaaag 600
tcataaaaag atcaacaaaa aattgtta 628

```

<210> 2

<211> 1400

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: HO promoter

<400> 2

```
gttaaaagtt acatcctttt ttccattttt ccctacgctc agggcactgt actgcccggtg 60
cctgcgatga gatacatcaa tttaaaaaaa aaaccagcat gctataatgc tggagcaaaa 120
atttcaatca gaaatagaaa agacctcaac agtaattaac ccaaaggggt atcaaataat 180
cgatgtgctt ttccactcta cgaatgatct gtgagaaact gatttgggcc gaatcgcgta 240
aaaagtttga ttcgtggcgg ctaatgtctg aggggctcca acaggctcgt agagcctcgt 300
ttcttgaggg cacaaaatgt ccaggtaata ttcccaagaa agaaccgcag agtgctttga 360
taaatcggtt acaggtctta acgtagggtt tgtctcgcta attgctattg agtaagttcg 420
atccgtttgg cgtcttttgg ggtgtaacgc caaacttatt acttttccta tttgagggtg 480
gtattgattg ttgtcaaaga atgaaaatat acacaaacgc cacaatatac gtaccagggt 540
cacgaaaact gatcgtatgg ttcataacct gacttggcaa acctaattgt accgtcgtcg 600
attagcggat cacgaaaagt gatctcgata caattagagg atccacgaaa atgatgtgaa 660
tgaatacatg aaagattcat gagatctgac aacatggtag acgtgtgtgt ctcatggaaa 720
ttgatgcagt tgaagacatg tgcgtcacga aaaaagaaat caatcctaca cagggtctta 780
gggcaaatgt attcatgtgt gtcacgaaaa gtgatgtaac taaatacacg attaccatgg 840
aaattaacgt accttttttg tgcgtgtatt gaaatattat gacatattac agaaaggggt 900
cgcaagtcct gtttctatgc ctttctctta gtaattcacg aaataaacct atgggtttacg 960
aatgatcca cgaaaatcat gttattattt acatcaacat atcgcgaaaa ttcattgtcat 1020
gtccacatta acatcattgc agagcaacaa ttcattttca tagagaaatt tgctactatc 1080
accactagt actaccattg gtacctacta ctttgaattg tactaccgct gggcggttatt 1140
aggtgtgaaa ccacgaaaag ttcaccataa cttcgaataa agtcgcggaa aaaagtaaac 1200
agctattgct actcaaatga gggttgcaga agcttggtga agcatgatga agcgttctaa 1260
acgcactatt catcattaaa tatttaaagc tcataaaaatt gtattcaatt cctattctaa 1320
atggctttta tttctattac aactattagc tctaaatcca tatcctcata agcagcaatc 1380
aattctatct atactttaaa 1400
```

<210> 3

<211> 179

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cytochrome c
transcription terminator

<400> 3

```
agatccgctc taaccgaaaa ggaaggagtt agacaacctg aagtctaggt ccctattttat 60
ttttttatag ttatgttagt attaagaacg ttattttatat ttcaaatttt tctttttttt 120
ctgtacagac gcgtgtacgc atgtaacatt atactgaaaa ccttgcttga gaaggtttt 179
```

<210> 4

<211> 1542

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 4

```
atgtcagcta taccaataac tccaactaag cgtatcagaa gaaatctatt tgacgatgct 60
ccagcaacgc ctccacgacc ttgtaaaaga aaaaagttgc agttcacaga tgttacacca 120
gaatcatccc cagaaaaact gcagtttggc tcacagtcta tttttttgag gacaaaggca 180
cttttgacga agtcatctga gctagtcaac ttgaatagca gcgatgggtc attgccagca 240
agaacagcag agtacgaaca agttatgaat tttttggcga aggcaatttc tgaacacagg 300
tccgattcac tgtacatcac ggggtccgcct ggcaactggca agactgccca gcttgatatg 360
attataagac agaagttcca gtccctccca ttgtcgctct ccacgccacg ctcgaaggac 420
gtgctgagac atacgaatcc gaacttgacg aatttgtcct ggtttgaatt gcccgatgga 480
aggctagaat ccgtggcggt aaccagtatt aattgtatat cgttgggaga gccgtcctcc 540
attttccaga agattttcga ttccctccaa gatctgaatg gcccaacatt gcaaataaaa 600
aacatgcagc atctacagaa gttcttagag ccttatcata agaaaactac gtttgtgggt 660
gtgttggacg agatggacag gctattgcat gctaacacga gcgagacaca atcagttaga 720
actattcttg aattattcct tttggcgaaa ttgcctactg tgagttttgt gttaatcggg 780
atggctaata gtctagatat gaaagatagg tttctttcca ggtaaattt ggacagaggg 840
ttgttaccgc aaactatagt ttttcagcca tacactgctg agcaaatgta tgaaatcgct 900
attcaaaaaa tgagtagtct gccactatt atcttccaac cgatggccat caaattcgca 960
gcaaagaagt gtgctggaaa tacgggtgac cttcgaaaac tttttgatgt ctttaagggg 1020
agtatcgaaa tctatgagtt agaaaagcgg tttctgcttt caccaacaag aggatcattg 1080
aactctgcgc aagttccttt gacgccaaact acttctccgg taaagaaatc gtatccagaa 1140
ccacaaggta aaataggctt gaactacata gccaaaggct tctcaaaatt cgtgaacaat 1200
aattctacga gaacgaggat agccaaacta aacatccagc aaaaattaat tctttgcacc 1260
ataattcaat cactgaagct aaattccgat gctacaatcg acgaatcggt tgatcattat 1320
atcaaagcga taacaaaaac tgatacttta gcaccattgc agagaaatga atttttggaa 1380
atctgtacaa ttttagaaac ttgtgggctg gtttcaatca aaaagacaaa gtgtaaaggg 1440
aaaaccaaga gatttggtga taagattgat gttgatctcg acatgcgaga attttatgat 1500
gagatgacca aaatttcaat tttgaaacct ttccttcact ag 1542
```